

Table 2
Newark Bay Shoreline Segments with Access and Corresponding Sediment Sample Numbers from the Crab/Clam QAPP and SQT QAPP

NBSA Segment Number		City/State	Description	Length ^a (miles)	Shoreline Access Characterization and Zoning Category	Exposure Route	Crab/Clam Sample Number ^b	SQT QAPP Sample Number ^c	Total Sediment Samples for Accessible Segments
Problem Formulation	Recon- naissance Survey Report								
1	20	Kearny, NJ	Kearny Point	0.4	Industrial/Manufacturing/ Commercial Zoning – With Access (I)	Incidental ingestion and dermal contact	122A*; 122B*; 122C*	164	4
3	19	Jersey City, NJ	Droyers Point	0.1	Residential Zoning – With Recreational Access (RA)	Incidental ingestion and dermal contact	NA	166	1
5	17	Jersey City, NJ	The Thomas M. Gerrity Athletic	0.2	Residential Zoning – With Recreational Access (R)	Incidental ingestion and dermal contact	123A*; 123B	136 ^d	3
7	16	Bayonne, NJ	Route 440, south of railroad bridge	0.1	Residential Zoning – With Recreational Access (CC)	Incidental ingestion and dermal contact	NA	167	1
9	15	Bayonne, NJ	Rutkowski Park	0.6	Residential Zoning – With Recreational Access (R)	Incidental ingestion and dermal contact	NA	168 ^e ; 169 ^f	2
11	12/13	Bayonne, NJ	Park Drive to Benmore Terrace	0.1	Residential Zoning – With Recreational Access (R)	Incidental ingestion and dermal contact	NA	140	1
13		Bayonne, NJ	W 31 st Street to W 30 th Street	0.1	Residential Zoning – With Recreational Access (R)	Incidental ingestion and dermal contact	125	NA	1
15	10/11	Bayonne, NJ	Bayonne High School to W 24 th Street	0.4	Residential Zoning – With Recreational Access (rocky shoreline; elevation differences between land and water) (R)	Incidental ingestion and dermal contact	NA	142 ^g ; 170 ^h	2
17	9	Bayonne, NJ	W 22 nd Street	0.1	Residential Zoning – With Recreational Access (R)	Incidental ingestion and dermal contact	NA	171	1
19	8	Bayonne, NJ	W 21 st Street to Marina	0.8	Residential Zoning – With Recreational Access (R)	Incidental ingestion and dermal contact	127A	143	2
21	6	Bayonne, NJ	W 8 th Street to Marina 2	0.2	Residential Zoning – With Recreational Access (R)	Incidental ingestion and dermal contact	127B	145; 172	3
23	5	Bayonne, NJ	Community Commercial Area	0.3	Residential Zoning – With Recreational Access (CC)	Incidental ingestion and dermal contact	NA	173	1
25	4	Bayonne, NJ	Waterfront Development District	0.8	Industrial/Manufacturing/ Commercial Zoning – With Access (WDD)	Incidental ingestion and dermal contact	NA	174; 178 ⁱ	2
26	2b	Staten Island, NY	Staten Island (small section by bridge)	0.1	Industrial/Manufacturing/ Commercial Zoning – With Access (M)	Incidental ingestion and dermal contact	NA	175	1
28	1	Staten Island, NY	Staten Island West	1.6	Industrial/Manufacturing/ Commercial Zoning – With Access (M)	Incidental ingestion and dermal contact	129; 134*	149	3
29	32	Staten Island, NY	Shooters Island	0.8	Industrial/Manufacturing/ Commercial Zoning – With Access (M)	Incidental ingestion and dermal contact	NA	176	1

Table 2
Newark Bay Shoreline Segments with Access and Corresponding Sediment Sample Numbers from the Crab/Clam QAPP and SQT QAPP

NBSA Segment Number		City/State	Description	Length ^a (miles)	Shoreline Access Characterization and Zoning Category	Exposure Route	Crab/Clam Sample Number ^b	SQT QAPP Sample Number ^c	Total Sediment Samples for Accessible Segments
Problem Formulation	Recon- naissance Survey Report								
30	29/30	Elizabeth, NJ	MRC	0.4	Residential Zoning – With Recreational Access (MRC)	Incidental ingestion and dermal contact	135	NA	1
32	25/26	Elizabeth, NJ	Kapkowski	1.1	Industrial/ Manufacturing/ Commercial Zoning – With Access (KA)	Incidental ingestion and dermal contact	130; 131A; 131B	155	4
34	22	Newark, NJ	Area near highway and railroad bridges	0.9	Industrial/Manufacturing/ Commercial Zoning – With Access (I)	Incidental ingestion and dermal contact	132A; 133	160; 161	4
36	21	Newark, NJ	North of Hess Plant	0.2	Industrial/Manufacturing/ Commercial Zoning – With Access (I)	Incidental ingestion and dermal contact	NA	NA	0
NA	31	Elizabeth, NJ	Elizabeth Marina Park area	0.12	Industrial/Commercial (I)	Incidental ingestion and dermal contact	NA	177	1
Total				9.42			16	23	39

Notes:

1. Crab/Clam sampling stations 124 and 132B have not been included as they are not within the boundaries of shoreline segments identified as having human access in the NBSA shoreline access characterization map (Figure B6) of the NBSA Problem Formulation (June 2013).

^a Identified in Table B1 of the NBSA Problem Formulation (June 2013).

^b Identified in Figure 2-1 of the NJDEP Permit Submittal document dated February 26, 2015.

^c Identified in Figure 1 of the NBSA Sediment Quality Triad and Porewater Sampling and Analysis (August 2015).

^d Crab/Clam samples 123A and 123B, and SQT QAPP sample 136 provide data for the accessible shoreline areas near The Thomas M. Gerrity Athletic Complex.

^e SQT QAPP sample 168 provides data for the recreational area near the NE corner of the Bay (just north of the parks in Bayonne).

^f SQT QAPP sample 169 provides data for accessible shoreline areas near Richard A. Rutkowski Park.

^g SQT QAPP sample 142 provides data for the beach-like area near Bayonne High School.

^h SQT QAPP sample 170 is proposed to be collected near the northern shoreline area of the trailer park. As seen in Appendix B-7 of the NBSA Reconnaissance Survey Report (April 2015) and in Google Earth images of the trailer park shoreline it is dominated by riprap. SQT QAPP sample 170 is proposed to be collected in an area that is most accessible by humans.

ⁱ SQT QAPP sample 146 will not be used for the BHHRA due to its location on a transitional slope; a new sample closer to the shoreline will be added.

* = The sample location may not be within the exact segment boundary, however it is within a reasonable distance to be considered relevant and useful

(CC) = Community Commercial

(I) = Industrial

(KA) = Kapkowski Road Redevelopment Area

(M) = Manufacturing

(MRC) = Manufacturing, Research, Commercial

(R) = Residential

(RA) = Redevelopment Area

(WDD) = Waterfront Development District